

Met	Asp	Trp	Pro	His	Asn	Leu	Leu	Phe	Leu	Leu	Thr	Ile	Ser	Ile	1	5	10	15
Phe	Leu	Gly	Leu	Gly	Gln	Pro	Arg	Ser	Pro	Lys	Ser	Lys	Arg	Lys	20	25	30	
Gly	Gln	Gly	Arg	Pro	Gly	Pro	Leu	Ala	Pro	Gly	Pro	His	Gln	Val	35	40	45	
Pro	Leu	Asp	Leu	Val	Ser	Arg	Met	Lys	Pro	Tyr	Ala	Arg	Met	Glu	50	55	60	
Glu	Tyr	Glu	Arg	Asn	Ile	Glu	Glu	Met	Val	Ala	Gln	Leu	Arg	Asn	65	70	75	
Ser	Ser	Glu	Leu	Ala	Gln	Arg	Lys	Cys	Glu	Val	Asn	Leu	Gln	Leu	80	85	90	
Trp	Met	Ser	Asn	Lys	Arg	Ser	Leu	Ser	Pro	Trp	Gly	Tyr	Ser	Ile	95	100	105	
Asn	His	Asp	Pro	Ser	Arg	Ile	Pro	Val	Asp	Leu	Pro	Glu	Ala	Arg	110	115	120	
Cys	Leu	Cys	Leu	Gly	Cys	Val	Asn	Pro	Phe	Thr	Met	Gln	Glu	Asp	125	130	135	
Arg	Ser	Met	Val	Ser	Val	Pro	Val	Phe	Ser	Gln	Val	Pro	Val	Arg	140	145	150	
Arg	Arg	Leu	Cys	Pro	Pro	Pro	Pro	Arg	Thr	Gly	Pro	Cys	Arg	Gln	155	160	165	
Arg	Ala	Val	Met	Glu	Thr	Ile	Ala	Val	Gly	Cys	Thr	Cys	Ile	Phe	170	175	180	

FIGURE 1

aggcgggcag cagctgcagg ctgaccttgc agcttggcgg aatggactgg 50
 cctcacaacc tgctgtttct tcttaccatt tccatcttcc tggggctggg 100
 ccagcccagg agccccaaaa gcaagaggaa ggggcaaggg cggcctgggc 150
 ccctggcccc tggcctcac caggtgccac tggacctggg gtcacggatg 200
 aaaccgtatg cccgcatgga ggagtatgag aggaacatcg aggagatggg 250
 ggcccagctg aggaacagct cagagctggc ccagagaaaag tgtgaggtca 300
 acttgcagct gtggatgtcc aacaagagga gcctgtctcc ctggggctac 350
 agcatcaacc acgaccccag ccgtatcccc gtggacctgc cggaggcacg 400
 gtgcctgtgt ctgggctgtg tgaaccctt caccatgcag gaggaccgca 450
 gcatggtgag cgtgccggtg ttcagccagg ttctgtgcg ccgccgcctc 500
 tgcccgccac cgcgccgcac agggccttgc cgcagcgcg cagtcatgga 550
 gaccatcgt gtgggctgca cctgcatctt ctgaatcacc tggcccagaa 600
 gccaggccag cagcccagaa ccacctctct tgcaccttg tgccaagaaa 650
 ggcttatgaa aagtaaacac tgacttttga aagcaag 687

FIGURE 2

Met Thr Leu Leu Pro Gly Leu Leu Phe Leu Thr Trp Leu His Thr
 1 5 10 15
 Cys Leu Ala His His Asp Pro Ser Leu Arg Gly His Pro His Ser
 20 25 30
 His Gly Thr Pro His Cys Tyr Ser Ala Glu Glu Leu Pro Leu Gly
 35 40 45
 Gln Ala Pro Pro His Leu Leu Ala Arg Gly Ala Lys Trp Gly Gln
 50 55 60
 Ala Leu Pro Val Ala Leu Val Ser Ser Leu Glu Ala Ala Ser His
 65 70 75
 Arg Gly Arg His Glu Arg Pro Ser Ala Thr Thr Gln Cys Pro Val
 80 85 90
 Leu Arg Pro Glu Glu Val Leu Glu Ala Asp Thr His Gln Arg Ser
 95 100 105
 Ile Ser Pro Trp Arg Tyr Arg Val Asp Thr Asp Glu Asp Arg Tyr
 110 115 120
 Pro Gln Lys Leu Ala Phe Ala Glu Cys Leu Cys Arg Gly Cys Ile
 125 130 135
 Asp Ala Arg Thr Gly Arg Glu Thr Ala Ala Leu Asn Ser Val Arg
 140 145 150
 Leu Leu Gln Ser Leu Leu Val Leu Arg Arg Arg Pro Cys Ser Arg
 155 160 165
 Asp Gly Ser Gly Leu Pro Thr Pro Gly Ala Phe Ala Phe His Thr
 170 175 180
 Glu Phe Ile His Val Pro Val Gly Cys Thr Cys Val Leu Pro Arg
 185 190 195
 Ser Val
 197

FIGURE 3

gccaggtgtg caggccgctc caagcccagc ctgccccgct gccgccacca 50
 tgacgctcct ccccggcctc ctgtttctga cctggctgca cacatgctg 100
 gccaccatg acccctccct cagggggcac cccacagtc acggtacccc 150
 aactgctac tcggctgagg aactgcccct cggccaggcc cccccacacc 200
 tgctggctcg aggtgccaag tgggggcagg ctttgctgt agccctggtg 250
 tccagcctgg aggcagcaag ccacaggggg aggcacgaga ggccctcagc 300
 tacgaccag tgcccgggtgc tgcgggccga ggaggtgttg gaggcagaca 350
 cccaccagcg ctccatctca ccctggagat accgtgtgga cacggatgag 400
 gaccgctatc cacagaagct ggccttcgcc gagtgcctgt gcagaggctg 450
 tatcgatgca cggacggggc gcgagacagc tgcgctcaac tccgtgcggc 500
 tgctccagag cctgctggtg ctgcgcgcgc ggccctgctc ccgcgacggc 550
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 cgccccgctc ggetgcacct gcgtgctgcc ccgttcagtg tgaccgcoga 650
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 tatttatgtg tatttattgt tatttatatg cctcccccaa cactaccctt 750
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 catctccagc ctcagtagtt gggggtagaa ggagctcagc acctcttcca 850
 gcccttaaag ctgcagaaaa ggtgtcacac ggctgcctgt accttggtc 900
 cctgtectgc tcccggcttc ccttacccta tcaactggct caggccccgc 950
 aggtgcctc ttcccaacct ccttggaagt acccctgttt cttaaacaat 1000
 tatttaagtg tacgtgtatt attaaactga tgaacacatc cccaaaa 1047

FIGURE 4

ggcagcaggg accaagagag gcacgcttgc ccttttatga catcagagct 50
cctgggttctt gctccttggg actctgggac ttacaccagt ggcacccctg 100
gctcnnnnnn nnnnnaattc ggtacgaggc tgggggttcag gcgggcagca 150
gctgcaggct gaccttgcag cttggcgga tggactggcc tcacaacctg 200
ctgtttcttc ttaccatttc catcttcctg gggctgggcc agcccaggag 250
ccccaaaagc aagaggaagg ggcaagggcg gcctgggccc ctggtccttg 300
gccctcacca ggtgccactg gacctggtgt cacggatgaa accgtatgcc 350
cgcatggagg agtatgagag gaacatcgag gagatgttgg ccagctgag 400
gaacagttca gagctggccc agagaaagtg tgaggtcaac ttgcagctgt 450
ggatgtccaa caagaggagc ctgtctccct ggggctacag catcaaccac 500
gaccccagcc gtatccccgt ggacctccgg aggcacggtg cctgtgtctg 550
ggcttgtgtg aacccttca ccatgcagga ggaccgcagc atggtgagcg 600
tgccggtgtt cagccagggt cctgtgcgcc gccgcctctg cccgccaccg 650
ccccgcacag ggccttgccg ccagcgcgca gtcattggaga ccatcgctgt 700
gggctgcacc tgcattcttc gaatcgacct ggcccagaag ccaggccagc 750
agcccagagc catctcctt gcacctttgt gccaaagaaag gcctatgaaa 800
agtaaact gacttttgaa agcaaaaaaa 830

FIGURE 5

cacggatgag gaccgctatc cacagaagct ggccttcgcc gagtgctgt 50
gcagaggctg tatcgatgca cggacgggcc gcgagacagc tgcgctcaac 100
tccgtgcggc tgctccagag cctgctggtg ctgcgccgcc ggcctgctc 150
ccgcgacggc tcggggctcc ccacacctgg ggcctttgcc ttccacaccg 200
agttcatcca cgtccccgtc ggctgcacct 230

FIGURE 6

100450 0324360

1

1 MTPGKTSLVSL L L L L

1 MDWPHNLLFLTISIFLGLGQPRSPKSKRKGGQGRPGPLAPGP

1 MTLPLGLFLTWLHTCLAHHDPSSLRGHPHSHGTPHCYSAEELPLGQAPPH

16

16 SLEAIVKAGITIPRNPGPCPNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSD

43 HQVPLDLVSRMKPYARMEEYERNIEEMVAQLRNSSSELAQARKCEVNQLWM

51 LARGAKWGQALPVALVSSLEAASHRGHERPSATTQCPVLRPEEVLEAD

66

66 YYNRS^{*}TSPWNLHRNEDPERYPSVIWEAKCRHLGCLNADGNVDYHMNSVPI

93 SNKRSLS^{*}SPWGY^{*}SINHDPSRIPVDLPEARCLCLGCVNPF^{*}TMQEDRSMVSV^{*}VP

101 THQRSIS^{*}SPWRVYRVDTDEDYPOKLAFAECLCRGCLDARITIGRIETAALNSVR

116

116 QQEI . LVLRRE^{*}EPHCPNS ERLEKILVSVGCTCVTP^{*}IVHHVA

143 VFSQVPVRRRL C^{*}PPPPRT GPCRQRAVMETI^{*}AVGCTCIF

151 LQLSLVLBBRP CSRDGSGLP^{*}TPGAFAEHTEF^{*}IHV^{*}PVGGCTCVL^{*}PRSV

hil17

hil17

hil17B

hil17B

hil17C

hil17C

FIGURE 7A

Tue Apr 27 16:58:30 1999

/home/ruby/va/Molbio/carpanda/temp/aa.out

```
59294 1 M D W P H N L F L L T I S I F L G L G Q P R S P K S K R K G Q G R P G P L A P G P . . . H Q V P L
62377 1 M T L L P G L F L L T W L H T C L A H H D P S L R G H P H S H G T P H C Y S A E E L P L G Q A P P

59294 48 D L V S R M K P Y A R M . . E E Y E R N I E E M V A Q L R N S S E L A Q R K C E V . . . N L Q L W
62377 50 H L L A R G A K W G A L P V A L V S S L E A A S H R G R H E R P S A T T O C P V L R P E E V L E A

59294 92 M S N K R S L S P W G Y S I N H D P S R I P V D L P E A R C L C L G C V N P F T M O E D R S M V S V
62377 100 O T H Q R S I S P W R Y R V D T D E D R Y P Q K L A F A E C L C R G C I D A R T G R E T A A L N S V

59294 142 P V F S Q V P V R R R L C P P P . . . P R T G P C R Q R A V M E T I A V G C T C I F
62377 150 R L L Q S L L V L R R R P C S R D G S G L P T P G A F A F H T E F I H V P V G C T C V L P R S V
```

FIGURE 7B

00543000 054001

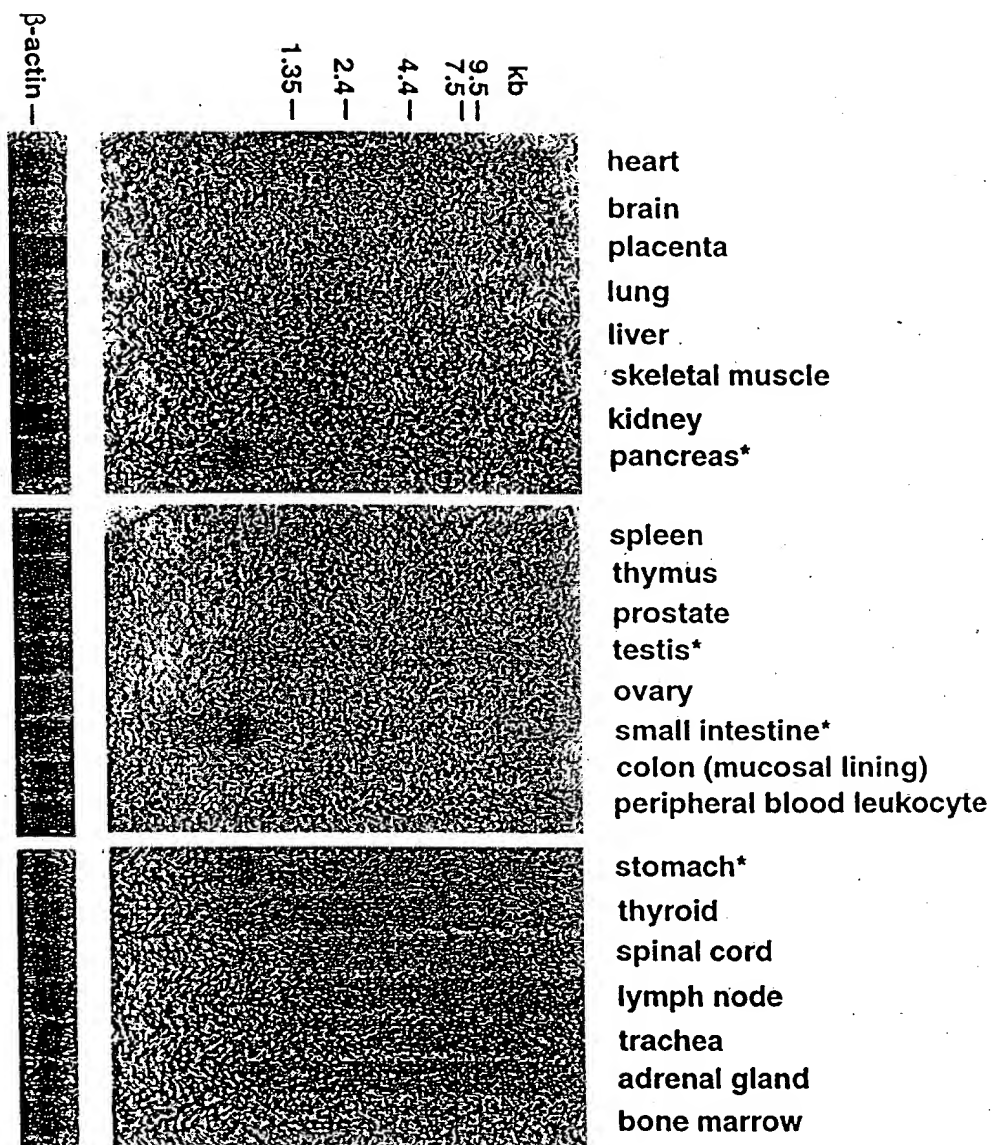
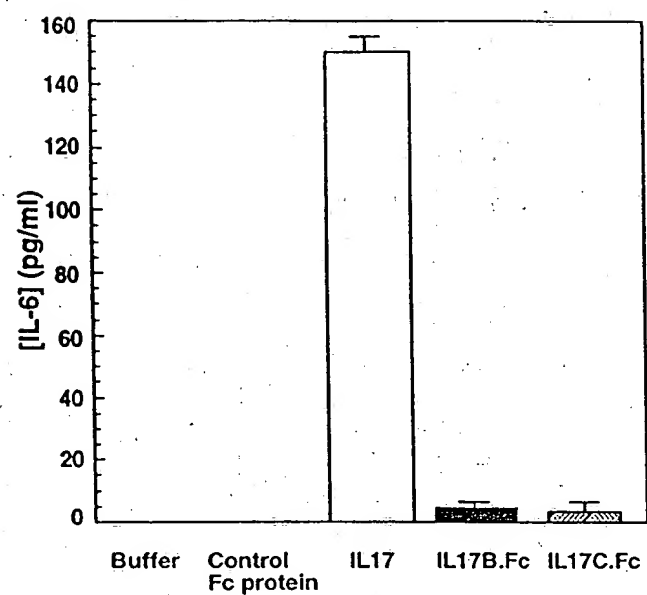


FIGURE 8

00054250 .051001

400750-03275360

A. HFF cells



B. THP1 cells

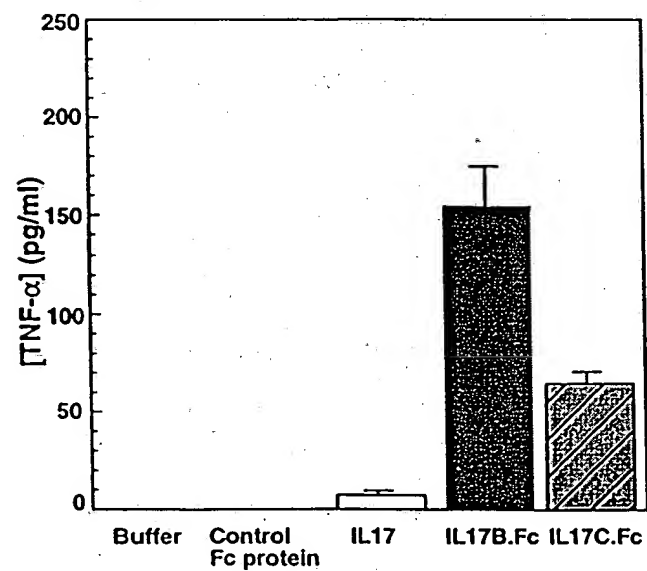
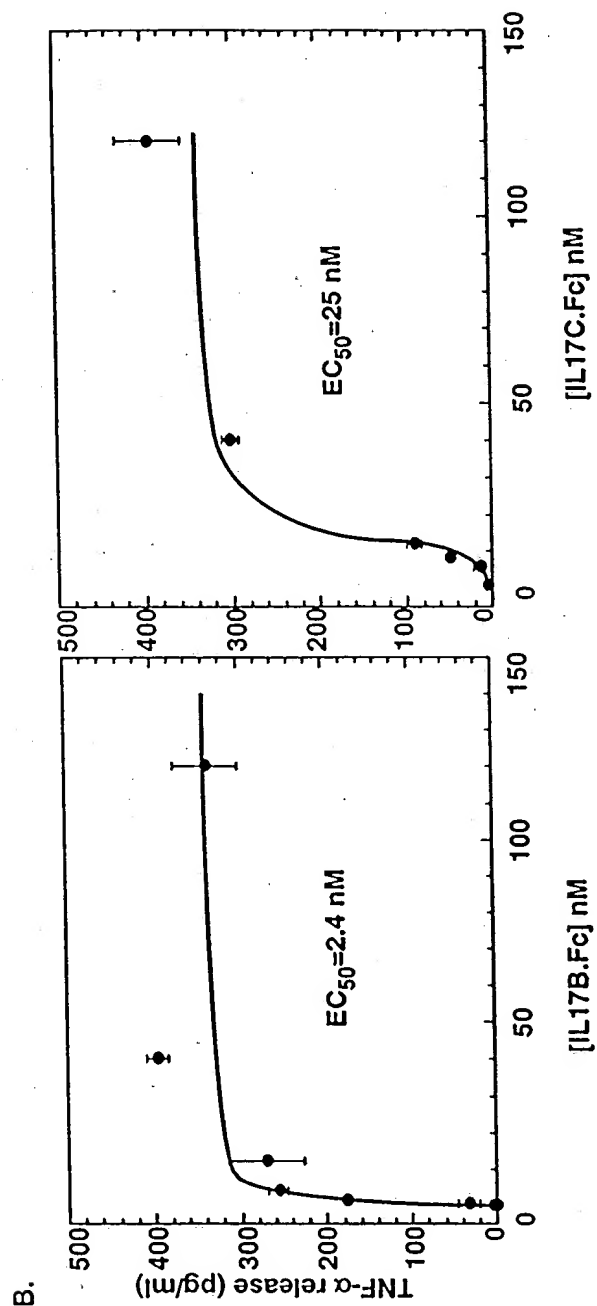
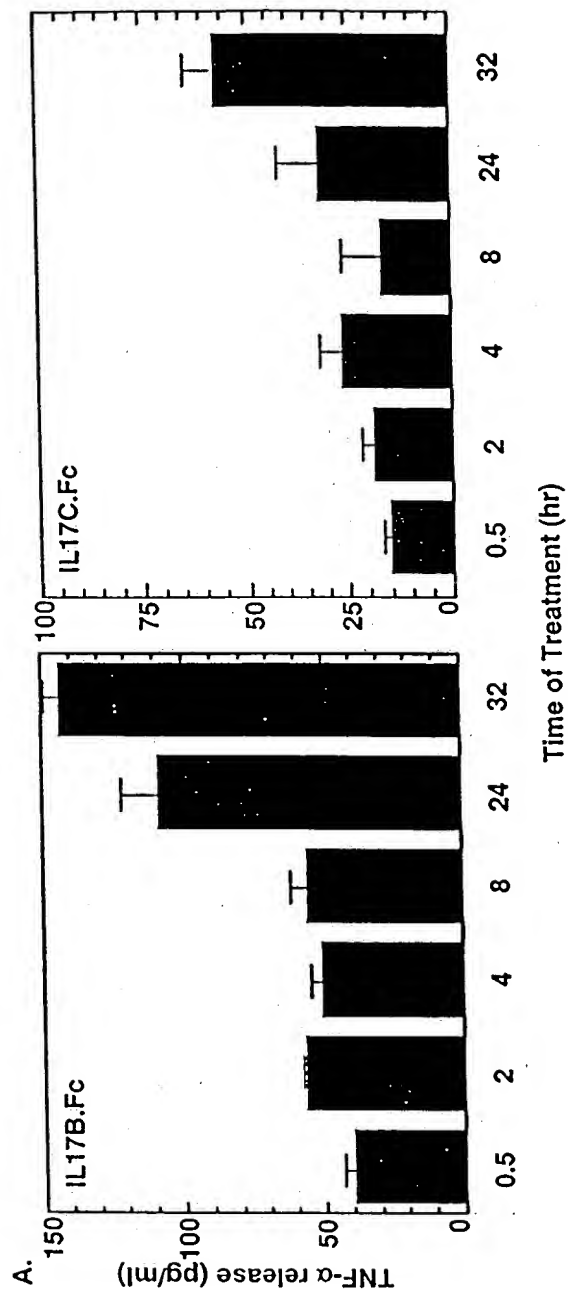


FIGURE 9

FIGURE 10



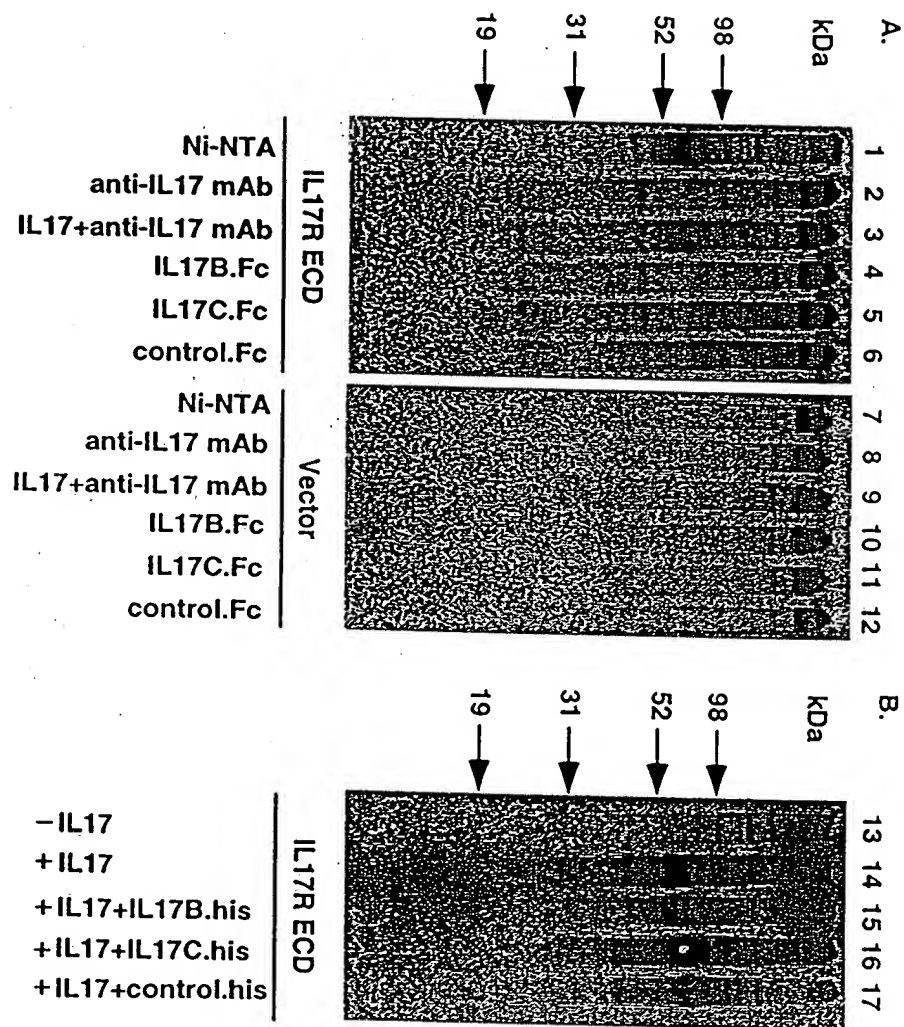


FIGURE 11

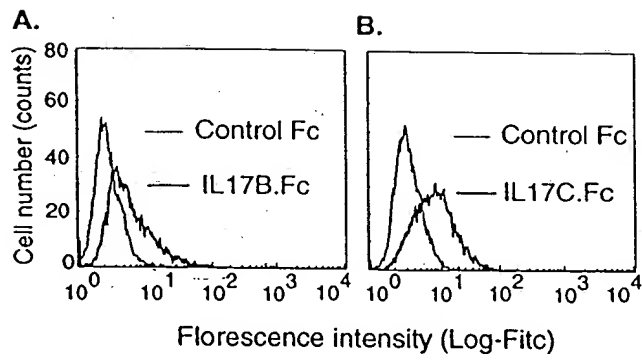


FIGURE 12

IL-17 induces breakdown and inhibits synthesis of cartilage matrix

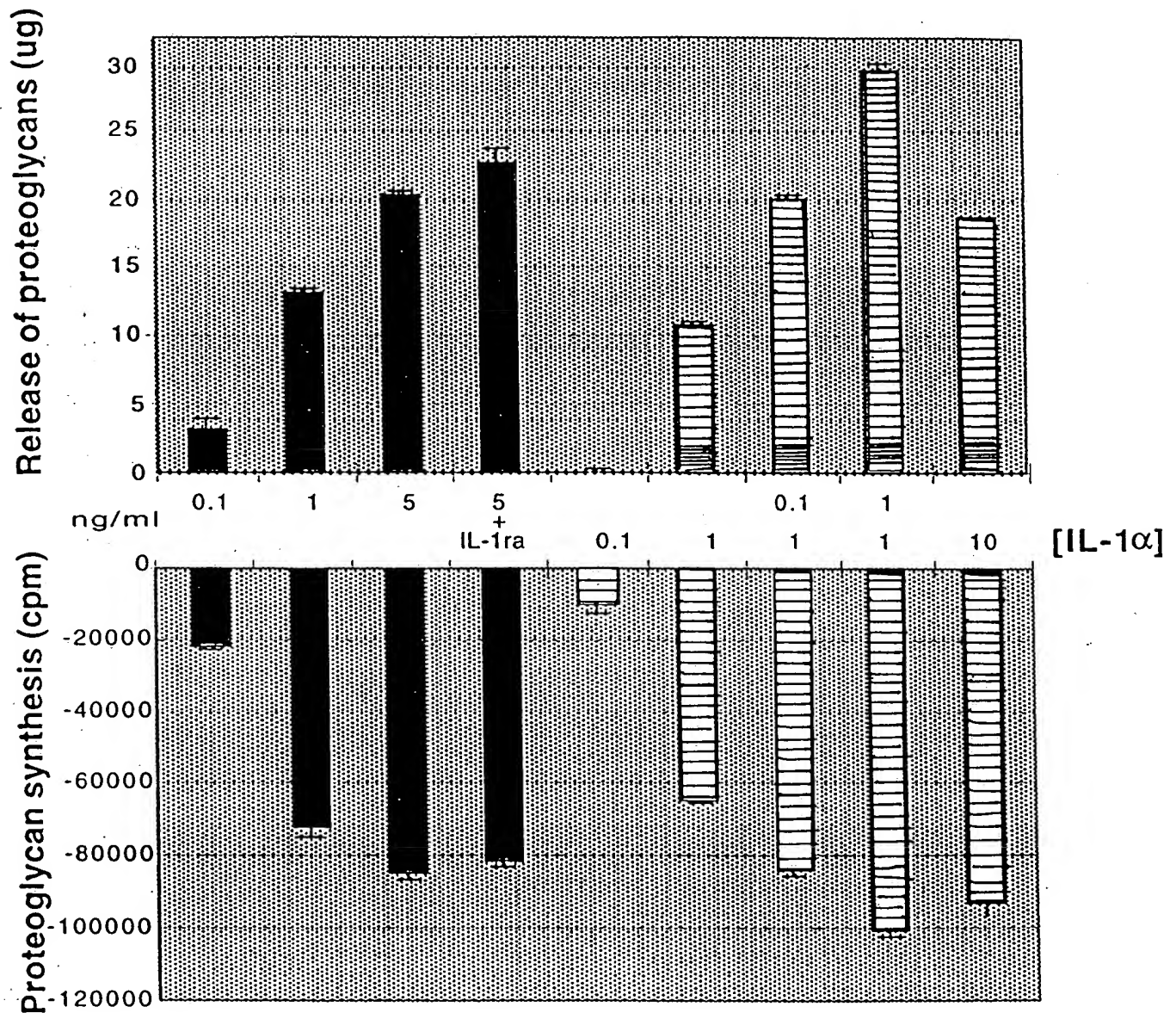


FIGURE 13

IL 17 increases basal and
IL-1 α -induced nitric oxide release

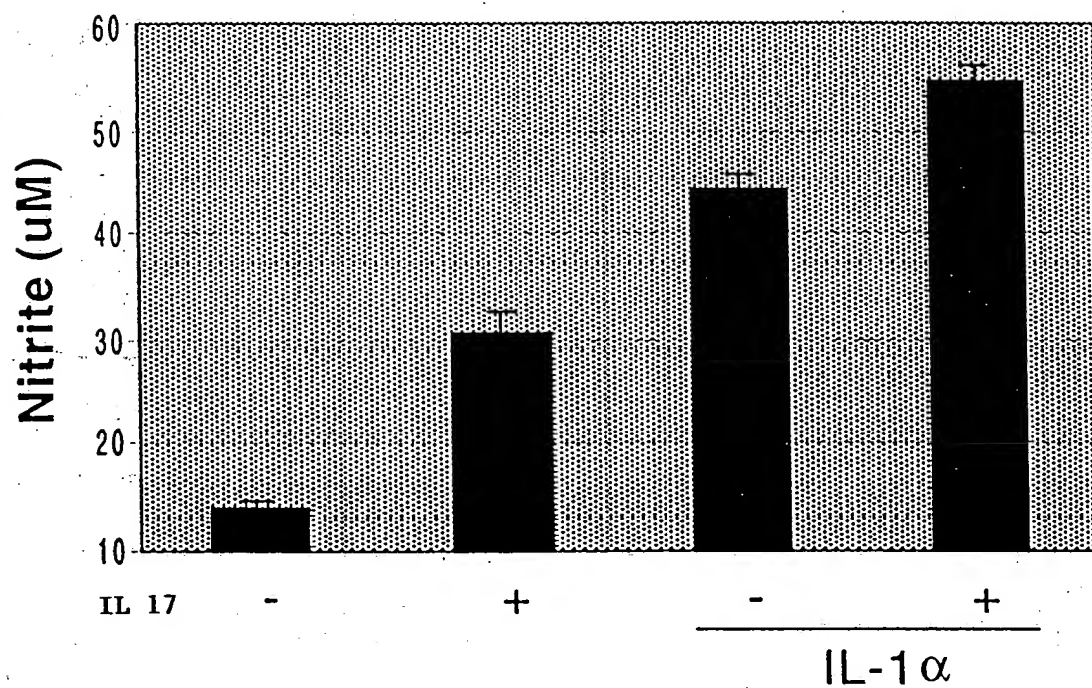
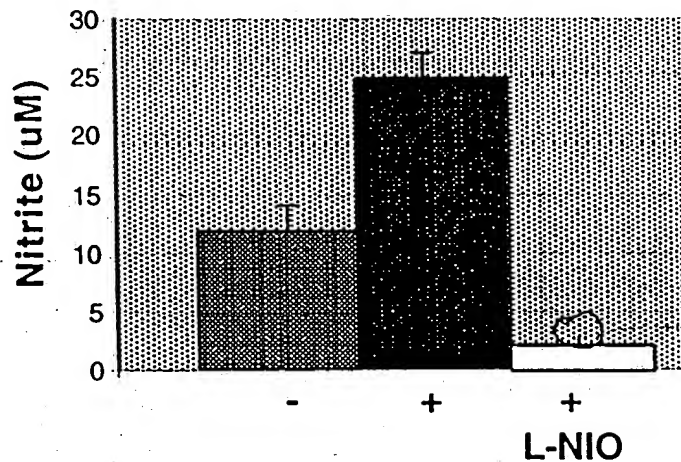


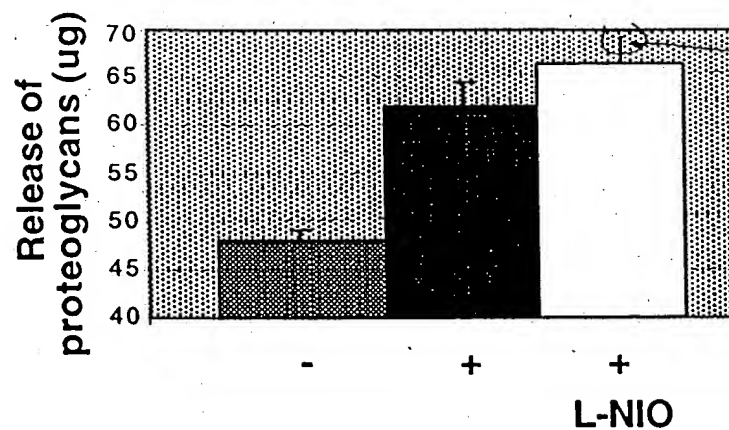
FIGURE 14

Inhibition of nitric oxide release does not block the detrimental effects of IL 17 on matrix breakdown or synthesis

A.



B.



C.

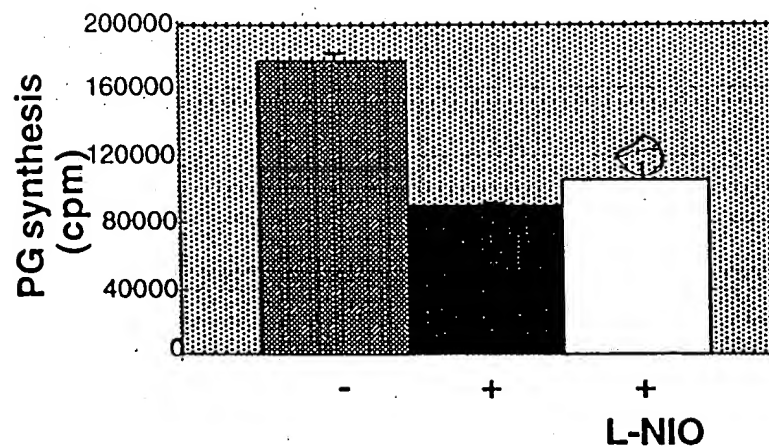


FIGURE 15

INHIBITION of NO release enhances
 IL-1- α -induced matrix breakdown
 but not matrix synthesis

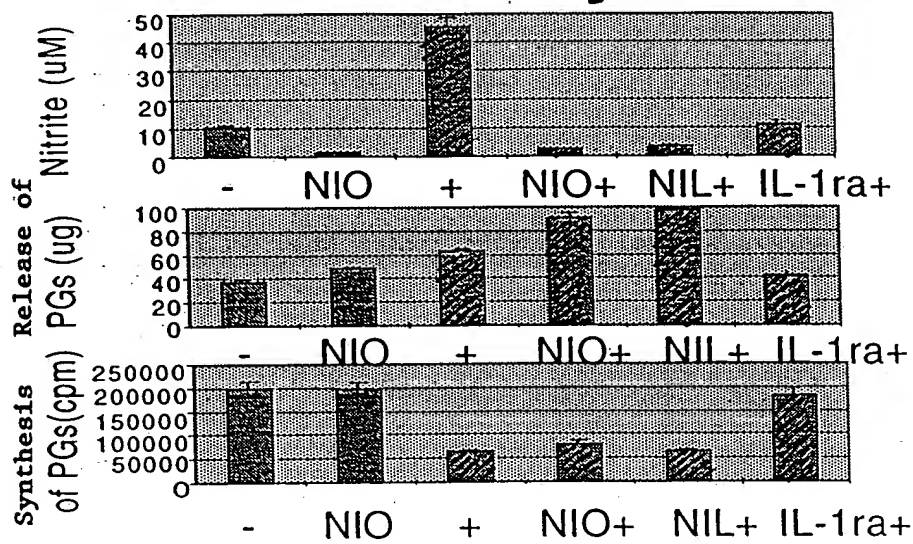


FIGURE 16

200450 03215800

IL 17 homologue 1 (UNQ516)
has positive effects on
articular cartilage

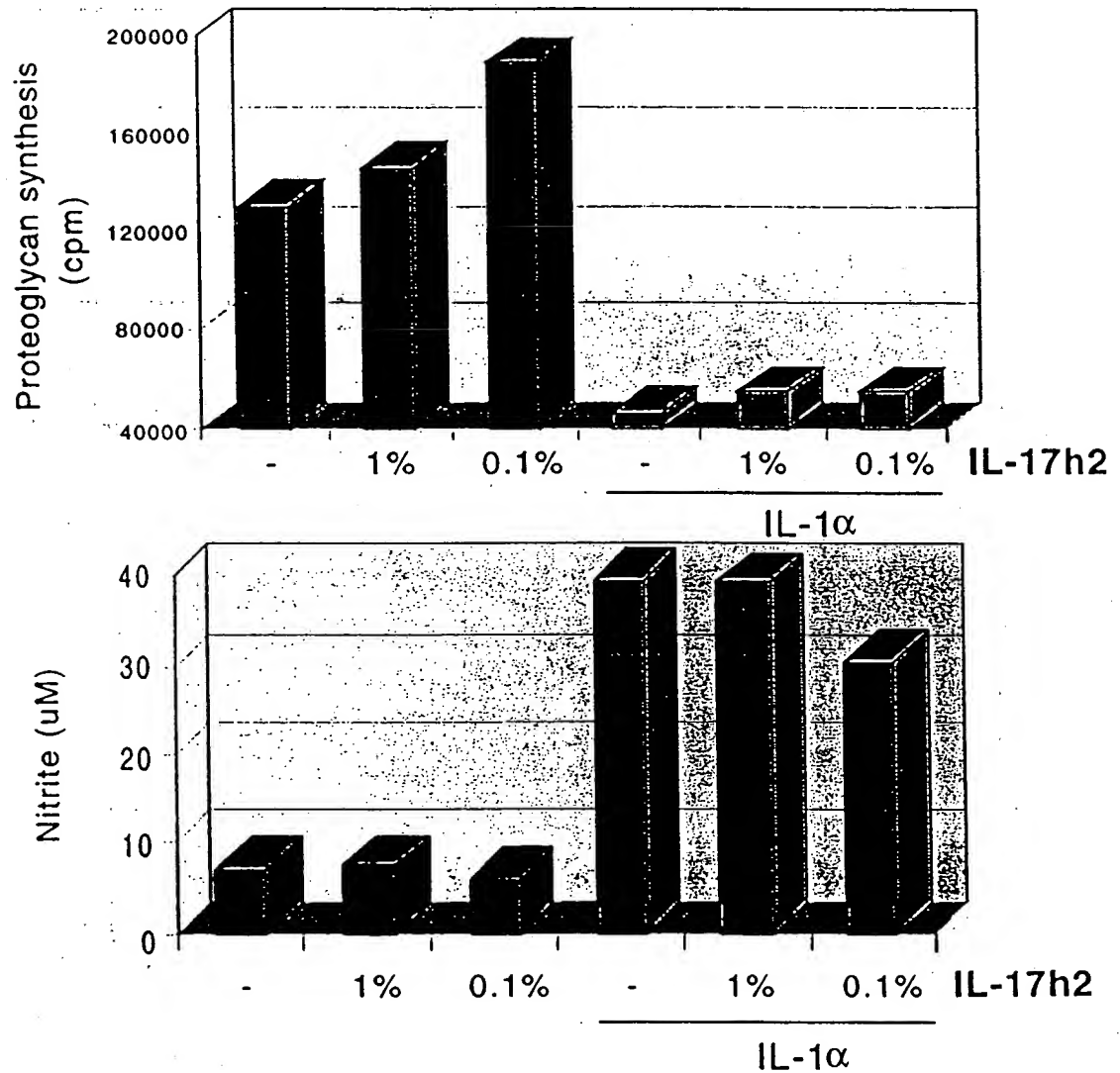


FIGURE 17

IL 17 homologue (UNQ 561) has detrimental effects on articular cartilage

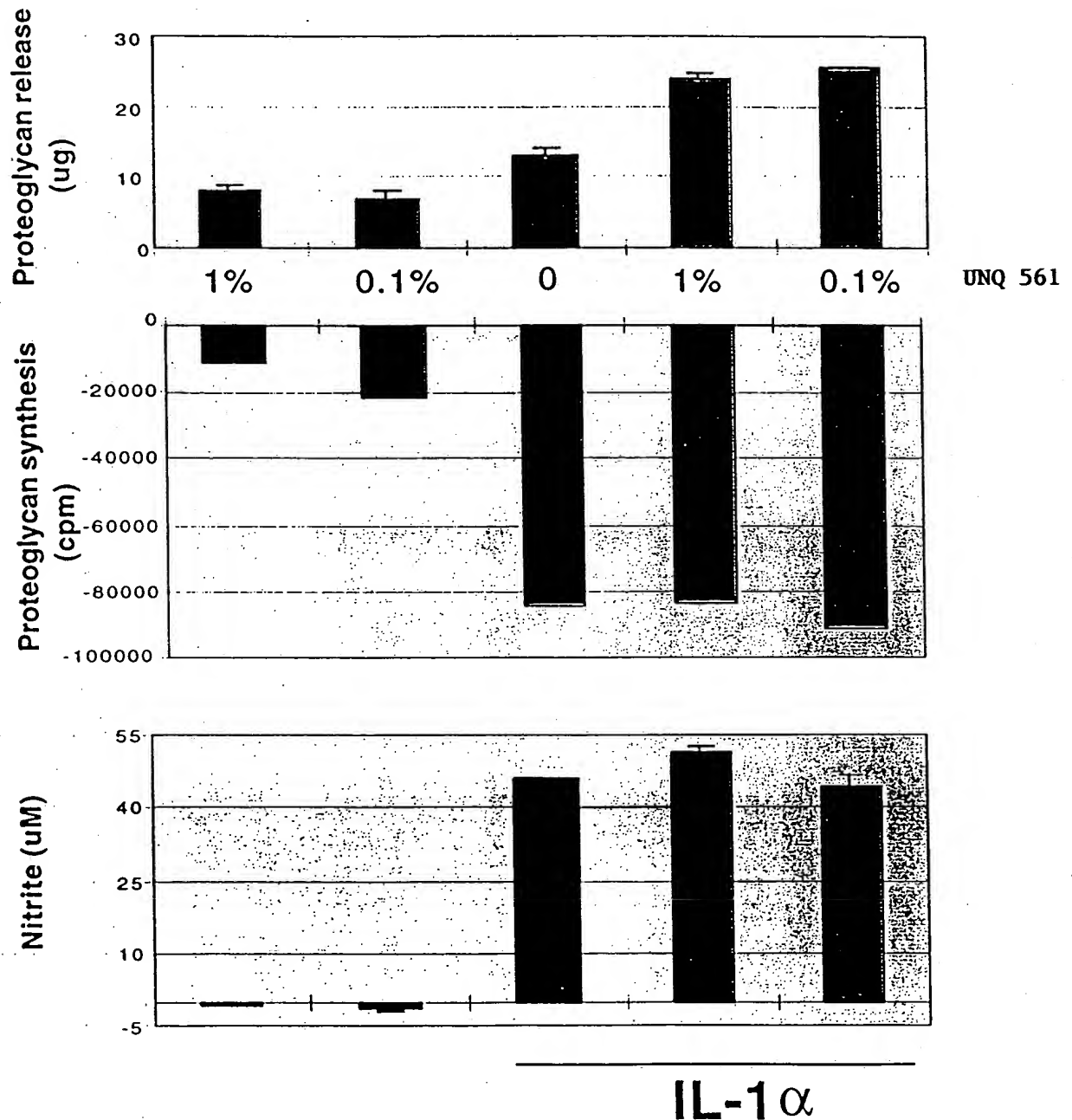


FIGURE 18